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1 Energy estimation tools for the Palm 88%



Todd L. Cignetti , Kirill Komarov , Carla Schlatter Ellis

Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems August 2000

Reducing the energy consumed in the use of mobile and wireless devices is becoming a major design challenge. While the problem obviously must be addressed with improved low-level technology, we have advocated also considering a higher-level view in which energy management becomes an explicit design goal of the software developer who can be more aware of the needs of applications. In support of this objective, new programming models, measurement tools, and simulation environments must ...

2 Tutorials: Designing interfaces for handheld computers 80%



Phillip B. Shoemaker

CHI '99 extended abstracts on Human factors in computing systems May 1999

With the handheld computer finally becoming mainstream, there is a need for designers to become informed about the tips and techniques necessary to design effective handheld applications. Many designers are unfamiliar with the unique requirements of handheld computers, and therefore attempt to use desktop metaphors on their designs. This tutorial will introduce design concepts used by the creators of the most popular and easy-to-use handheld computers. It includes designing screens and dialog boxes ...

3 SATIN: a toolkit for informal ink-based applications 80%



Jason I. Hong , James A. Landay

Proceedings of the 13th annual ACM symposium on User interface software and technology November 2000

4 "Making place" to make IT work: empirical explorations of HCI for 80%



mobile CSCW

Steinar Kristoffersen , Fredrik Ljungberg

Proceedings of the international ACM SIGGROUP conference on Supporting group work November 1999

This paper addresses issues of user interface design, relating to ease of use, of handheld CSCW. In particular, we are concerned with the requirements that arise from situations in which a traditionally designed mobile computer with a small keyboard and screen, may not be easily used. This applies to many mobile use contexts, such as inspection work and engineering in the field. By examining two such settings, we assert that what is usually pointed to as severe shortcomings of mobile comput ...

5 Remedial help desk 101 at Florida State University 77%



Diana Orrick , Jeff Bauer , Ernest McDuffie

Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future October 2000

6 Operating-system directed power reduction 77%



Yung-Hsiang Lu , Luca Benini , Giovanni De Micheli

Proceedings of the 2000 international symposium on Low power electronics and design August 2000

this paper presents a new approach for power reduction by taking a global, software-centric view. It analyzes the sources of power consumption: tasks that require services from hardware components. When a component is not used by any task, it can enter a sleeping state to save power. Operating systems have detailed information about tasks; therefore, OS is the best place for identifying hardware idleness and shutting down unused components. We implement this technique in Linux and show that ...

7 Linley on Linux: Yopy Puts Linux in Hand 77%



Linley Gwennap

Linux Journal September 2000

The author writes about Yopy, the first handheld computer that runs Linux.

8 Emerging mobile and wireless networks 77%



Upkar Varshney , Ron Vetter

Communications of the ACM June 2000

Volume 43 Issue 6

9 WEST: a Web browser for small terminals 77%



Staffan Björk , Lars Erik Holmquist , Johan Redström , Ivan Bretan , Rolf Danielsson , Jussi Karlgren , Kristofer Franzén

Proceedings of the 12th annual ACM symposium on User interface software and technology November 1999

We describe WEST, a WEb browser for Small Terminals, that aims to solve some of the problems associated with accessing web pages on hand-held devices. Through a novel combination of text reduction and focus+context visualization, users can access web pages from a very limited display environment, since the system will provide an overview of the contents of a web page even when it is too large to be displayed in its entirety. To make maximum use of the limited resources available on a typica ...

10 Factoring a mobile client's effective processing speed into the image 77%



transcoding decision

Richard Han

Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia August 1999

11 Quikwriting: continuous stylus-based text entry

77%



Ken Perlin

Proceedings of the 11th annual ACM symposium on User interface software and technology November 1998

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